

**NEW UTILITY PATENT APPLICATION TRANSMITTAL***(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))*Docket No.  
25824-010-401Total pages in this  
submission

U.S. Patent and Trademark Office  
2011 South Clark Place  
Customer Window, Mail Stop Patent Application  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, Virginia 22202

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**AUTOMATED DNA ARRAY IMAGE SEGMENTATION AND ANALYSIS**

And invented by:

**SOHEIL SHAMS**

IF A CONTINUATION APPLICATION, check appropriate box and supply requisite information:

☒ Continuation    ☐ Divisional☐ Continuation-in-part (CIP) of prior application No.:

09/992,687, filed 11/16/01, which is  
a continuation of 09/020,155, filed  
2/7/98

Enclosed are:

**Application Elements**

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 28 pages(s) and including the following:
  - a. ☒ Descriptive title of the invention
  - b. ☒ Cross references to related applications (*if applicable*)
  - c. ☐ Statement regarding Federally-sponsored research/development (*if applicable*)
  - d. ☐ Reference to microfiche appendix (*if applicable*)
  - e. ☒ Background of the invention
  - f. ☒ Brief summary of the invention
  - g. ☒ Brief description of the drawings (*if drawings filed*)
  - h. ☒ Detailed description
  - i. ☒ Claims as classified below
  - j. ☒ Abstract of the disclosure

Application Elements (continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 U.S.C. 113)  
☒ Formal ☐ Informal Number of sheets: 9
4. ☒ Oath or Declaration  
a. ☐ Newly executed (original or copy) ☐ Unexecuted  
b. ☒ Copy from a prior application (37 C.F.R. 1.63(d) (for continuation/divisional applications only)  
c. ☐ With Power of Attorney ☐ Without Power of Attorney
5. ☒ Incorporation by reference (usable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer program in microfiche
7. ☐ Genetic sequence submission (if applicable, all must be included)  
a. ☐ Paper copy  
b. ☐ Computer readable copy  
c. ☐ Statement verifying identical paper and computer readable copies

Accompanying Application

8. ☐ Assignment papers (cover sheet & document(s))
9. ☐ 37 C.F.R. 3.73(b) statement (when there is an assignee)
10. ☐ English translation document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☐ Certified copy of priority document(s) (if foreign priority is claimed)
15. ☐ Certificate of Mailing  
☐ First Class ☐ Express Mail (Label No.: \_\_\_\_\_ )
16. ☒ Small Entity Claimed \_\_\_\_\_

Accompanying Application (continued)

- 17.
- ☒
- Additional enclosures (please identify below):

Application Data Sheet

Fee Calculation and Transmittal

The filing fee for this utility patent application is calculated and transmitted as follows:

☐ Large Entity ☒ Small Entity

<u>CLAIMS AS FILED</u>					
For	# Filed	# Allowed	# Extra	Rate	Fee
Total Claims	10	- 20 =		x \$9.00	
Independent Claims	2	- 3 =		x \$42.00	
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					
Other Fees (specify purpose):					
BASIC FEE					\$375.00
TOTAL FILING FEE					\$375.00

☒ Check in the amount of \$375.00 to cover the total filing fee are enclosed.☒ The Commissioner is hereby authorized to charge and Deposit Account No. 50-0311 as described below. A duplicate copy of this sheet is enclosed.☐ Charge the amount of \_\_\_\_\_ as filing fee.☒ Credit any overpayment.☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.31(b).Correspondence Address:

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Dated: September 10, 2003

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